PRELIMINARY

DATA SHEET

GEO D

- *Legendary NEXO Sonic Innovation in an Affordable, One-Box Vertical Array System*
- *Bottom-Line Engineering for Theatre to Arena-Sized Fixed & Mobile Applications*
- *Coherent Wave Propogation from NEXO's Advanced GEO Hyperbolic Wavesource*
- *GeoSoft2 Configurable, EtherSound™ (Network) Controllable and GeoSite (Laser) Aimable System Deployment*

Next-Generation Design Features:

- Exceptional LF-MF output from single 12" mounted to GEO Directivity Phase Device
- Advanced Hyper-Cardioid LF control from unique, twin, side-mount 8" Active Resistors
- Single-Component Array Design at Less than 45Kg (per box) with Simple, Ergonomic Flying and Stage-Stackable Rigging System

NEXO

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www.nexo-sa.com

NEXO is one of the world's leading sound reinforcement loudspeaker manufacturers. Founded in 1979, the company is dedicated to crafting practical solutions with solid engineering. Each new design begins with a proprietary sophisticated computer simulation process that allows every parameter to be extensively modeled and simulated, leading to breakthrough cost and performance gains.
NEXO's comprehensive product line includes loudspeakers, analogue and digital control electronics and amplification; all designed to deliver consistent sound quality and long term reliability for a broad range of applications.

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GEO D PRODUCT FEATURES

Components	HF: 1x 3" voice coil, 1.4" throat 16Ω driver on a hyperboloid reflective wavesource. MF/LF (front-firing):1 x12"(30cm) high excursion neodymium 16Ω driver. LF (side-firing). 2x8"(20cm) neodynium 8Ω drivers in series
Height x Width x Depth	345mm x 730mm x 750mm (131/2" x283/4" x 291/2") including array assembly system
Shape	10° Trapezoid
Weight	46kg(101.4lbs) net, including array assembly system
Connectors	1x AMPHENOL EP6 6-pole socket In. 1x AMPHENOL AP6 6-pole connector Through. Attached cabinet-to-cabinet link cable with 6-pole AP6 connector.
Construction	Baltic birch ply finish with structured black coating.
Front Finish	Moulded Black Metal Grill.
Flying Points	Integral flying system. Intercabinet angle adjustments 0.20°,0.32°,0.50°,0.80°, 1.25°,2.00°,3.15°,5.00°,6.30°,8.00°,10°.

SYSTEM SPECIFICATIONS GEO D with NX242 TDcontroller

Frequency response [a]	60Hz – 19kHz ±3dB
Usable range @-6dB [a]	55Hz –20kHz
Sensitivity 1W @ 1m [b]	105dB SPL nominal (103dB SPL wideband)
Peak SPL @ 1m [b]	Configuration dependent (d)
Dispersion [c]	Vertical plane: Configuration dependent [d]. Horizontal plane: Configurable 90° - 120° Low Frequency: Cardioid
Crossover frequency	MF- HF: 1.0kHz Passive or Active (internally configurable). LF-MF: 300Hz Active
Nominal impedance	HF: 16Ω; LF/MF front:16Ω LF rear: 16Ω.
Recommended amplifiers	HF: 1500 to 2500 Watts into 3Ω (6x cabinets parallel per amp channel). LF/MF front section: 3000 to 5000 Watts into 3Ω (6x cabinets parallel per amp channel). LF rear section: 3000 to 5000 Watts into 3Ω (6x cabinets parallel per amp channel).

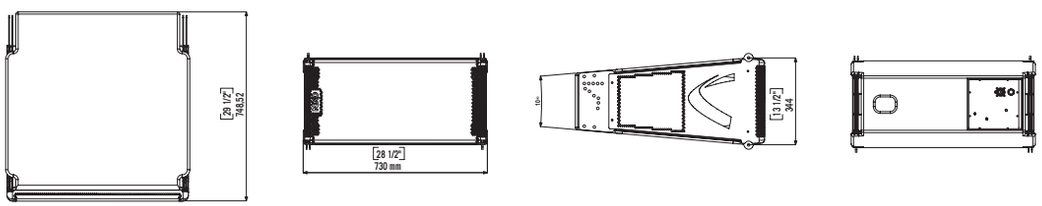
SYSTEM OPERATION

Electronic Controller	NX242 Digital TDcontroller presets are precisely matched to the GEO D Series cabinets and include sophisticated protection systems. Using GEO D Series cabinets without properly-connected NX242 Digital TDcontroller will result in poor sound quality and can damage components.
Array Design	Array of less than 4x GeoD will provide poor vertical dispersion control and inconsistent frequency response over distance and hence are neither recommended nor supported. Available Design Softwares: GEOSoft2, EASE 4.0+ or CATT v8.0+ (latest versions available at www.nexo-sa.com).
SubBass	CD18 Directional SubBass extend system frequency response down to 25Hz (requires additional 2x NX242 outputs and two amplifier channels).
Speaker Cables	Active: HF: 5(-)/6(+) LF-MF front: 3(-)/4(+) LF Rear: 1(-)/2(+). Passive: 5(-)/6(+) not connected Front: 3(-)/4(+) Rear: 1(-)/2(+).
Rigging System	Please refer to the GEOD User Manual before any operation.

SHIPPING & ORDERING

Packaging	GEO D-10 are packaged individually or in groups of 3x in NEXO GEO D dollies. Order as GEO D-10.

As part of a policy of continual improvement, NEXO reserves the right to change specifications without notice.
[a] Response curves and data: anechoic far field above 300Hz, half-space below 300Hz. [b] Sensitivity & peak SPL: will depend on spectral distribution. Measured with band limited pink noise. Refers to the specified ±3dB range. Data are for speaker + processor + recommended amplifier Combinations [c] Directivity curves and data: 1/3rd octave smoothed frequency response, normalized to on-axis response. Data obtained by computer processing of off-axis response curves. [d] Please refer to the GEO D User Manual. Usable range data: Frequency response capability with TD crossover slopes removed.



LIMITED WARRANTY
NEXO loudspeakers and electronics are covered against defects in workmanship or materials for a period of two (2) years from the original date of purchase. At the option of NEXO the defective item will be repaired/replaced with no charge for materials/labour. The item is to be adequately packaged and dispatched, pre-paid, to a NEXO authorised distributor/service centre. Unauthorised repair shall void the warranty. The NEXO warranty does not cover cosmetics or finish and does not apply to any items which in NEXO's opinion have failed due to used abuse, accidents, modifications or any type of misuse.All images and text herein are the property of NEXO SA, and deemed accurate, although specifications are subject to change without notice.

DATA SHEET

GEO SUB

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GEO-SUB PRODUCT FEATURES

Components	1 x 18" (46cm) long excursion neodymium 8Ω driver & 2 x 12" (30cm) neodymium 16Ω driver
Height x Width x Depth	552.5 x 745 x 1132mm (21 1/4" x 29 1/3" x 44 1/2")
Shape	10° Trapezoid
Weight	80kg (176lbs)
Connectors	2 x NL4MP SPEAKON 4 pole (In & Through).
Construction	Baltic birch ply finish with structured black coating.
Front Finish	Moulded Black Metal Grill.
Flying Points	Integral flying system. Intercabinet angle adjustments = 0.2°, 0.315°, 0.5°, 0.8°; 1.25°, 2.0°, 3.15°, 5, 6.3°, 8.0°, 10° (logarithmic steps).

SYSTEM SPECIFICATIONS GEO-SUB with NX242 TDcontroller

Frequency response @-3dB [a]	33Hz – 250Hz
Usable range @-6dB [a]	29Hz – 600Hz
Sensitivity 1W @ 1m [b]	103dB SPL Nominal
Peak SPL @ 1m [b]	139-142dB Peak
Dispersion [c]	Cardioid pattern over the entire useable bandwidth (two channels of the NX242 are used for the process).
Directivity Index [c]	Q = 4.3 & DI = 5.3dB over the entire useable bandwidth.
Crossover frequency	NX242 Digital TDcontroller setup dependent (from 80Hz to 250Hz).
Nominal impedance	2 x 8Ω.
Recommended amplifiers	2 amplifier channels are required for directional operation, each rated at 1000 to 2000Watts into 8Ω per channel.

SYSTEM OPERATION

Electronic Controller	The NX242 Digital TDcontroller presets are precisely matched to the GEO-Sub and include sophisticated protection systems. Using the GEO-Sub without a properly connected NX242 Digital TDcontroller will result in poor sound quality and can damage components.
Speaker Cables	The front loudspeaker of the GEO-Sub is wired 2+ & 2- while the rear loudspeakers are wired in parallel 1- & 1+. The GEO-Sub must use separate cables from the main system.
Rigging System	Please refer to the user manual before any operation.

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[a] Response curves and data: anechoic far field above 400 Hz, half-space anechoic below 400 Hz.
Usable range data: frequency response capability with TD crossover slopes removed.
[b] Sensitivity & peak SPL: will depend on spectral distribution. Measured with band limited pink noise.
Refers to the specified +/- 3 dB range. Data are for speaker + processor + recommended amplifier combinations.
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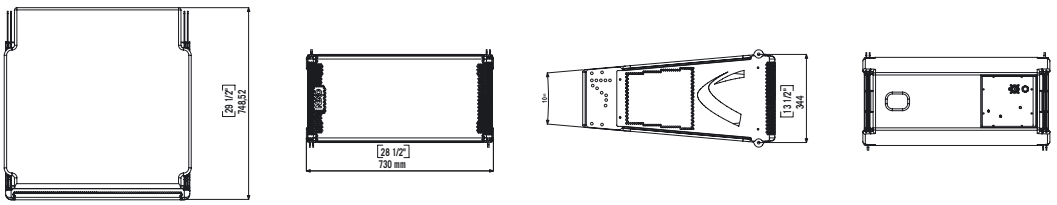

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